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(57) Abstract:

PURPOSE: To form an image by discharging ink in an ink chamber from a nozzle plate by arranging a material which undergoes a volume change associated with a phase antiferromagnetic transfer from ferromagnetic as an actuator in a pressure causing conveying liquid chamber, phase-transition material to change in volume, making the diaphragm to be displaced by conveying the volume change to diaphragm through a pressure transfer liquid.

CONSTITUTION: A material 23 which changes in volume in association with a transition from antiferromagnetic ferromagnetic is placed in a pressure transfer liquid chamber 22 as an actuator, the volume change of the material 23 is conveyed to a diaphragm 24 through the pressure transfer

liquid, and the diaphragm 24 is displaced to discharge ink in the ink chamber 25 from a nozzle 27 of a nozzle plate 26.

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